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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/813,245	03/31/2004	Leao Wang	GP34-U	4832
35741	7590	03/22/2005	EXAMINER	
KUO-HSIUNG CHIU 13F., NO.23, JIUN-HO STREET, PEITUN DISTRICT TAICHUNG, 406 TAIWAN			KWOK, HELEN C	
			ART UNIT	PAPER NUMBER
			2856	

DATE MAILED: 03/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)	
	10/813,245	WANG ET AL.	
	Examiner Helen C. Kwok	Art Unit 2856	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on \_\_\_\_.
- 2a) This action is FINAL.                                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-3 is/are pending in the application.
  - 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_ is/are allowed.
- 6) Claim(s) 1-3 is/are rejected.
- 7) Claim(s) \_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.
 

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) All    b) Some \* c) None of:
    1. Certified copies of the priority documents have been received.
    2. Certified copies of the priority documents have been received in Application No. \_\_\_\_.
    3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. ____.
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date ____.	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: ____.

## DETAILED ACTION

### *Drawings*

1. The drawings are objected. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

In Figures 1, 2 and 5, the block elements (i.e. elements 30,61,62,63,64) need to be labeled with its description within the block elements.

In Figure 5, the figure should be designated by a legend such as – Prior Art – because only that which is old is illustrated.

***Specification***

2. The disclosure is objected to because of the following informalities. Appropriate correction is required.

In the specification, there is no description for reference numeral "10" as illustrated in Figures 1 and 2.

On page 1, line 6, the word "valve" should be changed to – value --.

On page 2, line 19, the word "supper" should be changed to – supply --.

***Claim Objections***

3. Claims 1-3 are objected to because of the following informalities. Appropriate correction is required.

In claim 1, line 3, the phrase "the sensing terminal each" should be changed to – each of the sensing terminals --. In line 5, the word "definded" should be changed to – defined --. In line 9, the word "supper" should be changed to – supply -. In line 12, what is the word "their" referring to? In line 12, the phrase "determining the" should be changed to – a --. In line 13, the phrase "the acceleration value" should be changed to – an acceleration value --.

In claim 2, line 3, what is the word "it" referring to?

***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by JP 59-30066 (Koide et al.).

Koide et al. discloses an acceleration detector comprising, as illustrated in Figures 1-2, a position signal generator 5 having a plurality of sensing terminals 1 aligned to one another in axial direction such that each of the sensing terminals representing a certain position signal value; a rolling ball 2 movable within a closed space 3 defined by the position signal generator; a signal-detecting and arithmetic unit (not shown, but it is inherit to have a signal-detecting and arithmetic unit for calculation of the measured signals) for receiving and calculating the position signal value of the sensing terminal where the rolling ball is located; and a power supply unit connected to the signal-detecting and arithmetic unit such that when the rolling ball is forced to move in axial direction so that the signal-detecting and arithmetic unit can calculate different position signal values and obtain a change during a certain time period for determining the displacement distance and the acceleration value (i.e. at sensing terminal 1'). (See Abstract).

***Claim Rejections - 35 USC § 103***

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 2-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 59-30066 (Koide et al.) in view of U.S. Patent 4,311,051 (Eon et al.).

With regards to claims 2 and 3, Koide et al. does not disclose an expansion spring attached to the rolling ball and a frame around the rolling ball. Eon et al. discloses an acceleration detector comprising, as illustrated in Figures 1-3, an expansion spring 21 attached to the rolling ball 20 and a frame 28,31 around the rolling ball. (See, column 4, lines 23-39). It would have been obvious to a person of ordinary skill in the art at the time of invention to have readily recognize the advantages and desirability of employing the expansion spring attached to the rolling ball and the frame around the rolling ball as suggested by Eon et al. to the apparatus of Koide et al. so that the rolling ball is capable of moving against the action of the expansion spring permanently urging it towards a stop and to return to a neutral position without deviating from its position within the frame.

### ***Conclusion***

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The references cited are related to displacement sensor and acceleration sensor.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Helen C. Kwok whose telephone number is (571) 272-2197. The examiner can normally be reached on 8:30 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hezron E. Williams can be reached on (571) 272-2208. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



\_\_\_\_\_  
Helen C. Kwok  
Art Unit 2856

hck  
March 17, 2005